Charlotte Department of Transportation
Base Map Requirements for Traffic Signal Design

All CAD files should be submitted in AutoCAD 2009 dwg file format.

Base Map/drawing should be provided and should comply with the following:

1. Layers should match the Engineering Department standards

2. UCS/world and PLAN/world orientation; UCS should be set to World. No skewed drawings, text and crosshairs.

3. There is no need for layers with points or baseline

4. Purge all blocks, layers, shape files, text, etc.

5. Convert all text to simplex/standard.

6. Drawings should be 2-D. Elevation set to "0".

7. Curves should be actual radius elements, not multi- segmented lines or poly lines.

8. Drawing must be unitless.

Design/Base map must include the following:

1. Locate all existing CDOT utilities and the actual sizes of the pull boxes and place on separate layer.

2. Show proposed and existing sidewalk, edge of pavement/curb lines, pavement markings and Right of way/easements.

3. Show proposed and existing utility poles with down guys, including the overhead lines.

4. Since it will impact pole and pull box placement, show the following: Underground utilities (water, sewer, gas, electric, communication), Driveways & buildings, Storm water features in or near the road, such as drainage ditches, culverts, and Existing & proposed trees.

5. Show Roadway centerline.

6. Include a minimum of +/- 300 feet of information for each leg of an intersection, including driveways.